



## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/825,246

Source: OIPE

Date Processed by STIC: 4-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/825,246

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 \_\_\_\_\_ Wrapped Nucleics  
The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 \_\_\_\_\_ Wrapped Aminos  
The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 \_\_\_\_\_ Incorrect Line Length  
The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 \_\_\_\_\_ Misaligned Amino Acid Numbering  
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 \_\_\_\_\_ Non-ASCII  
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 \_\_\_\_\_ Variable Length  
Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 \_\_\_\_\_ PatentIn ver. 2.0 "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 \_\_\_\_\_ Skipped Sequences (OLD RULES)  
Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 \_\_\_\_\_ Skipped Sequences (NEW RULES)  
Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 \_\_\_\_\_ Use of n's or Xaa's (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 \_\_\_\_\_ Use of "Artificial" (NEW RULES)  
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
Valid response is Artificial Sequence.
- 12 \_\_\_\_\_ Use of <220> Feature (NEW RULES)  
Sequence(s) \_\_\_\_\_ are missing the <220> Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 \_\_\_\_\_ PatentIn ver. 2.0 "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/825,246

DATE: 04/23/2001

TIME: 13:14:30

Input Set : A:\0225-0033.20-SEQLIST.txt

Output Set: N:\CRF3\04232001\I825246.raw

4 <110> APPLICANT: Singh, Sharat  
 5 Matray, Tracy  
 6 Chenna, Ahmed  
 8 <120> TITLE OF INVENTION: Sets of Oligonucleotide-Binding e-tag  
 9 Probes  
 11 <130> FILE REFERENCE: 0225-0033.20  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/825,246  
 C--> 14 <141> CURRENT FILING DATE: 2001-04-02  
 16 <150> PRIOR APPLICATION NUMBER: US 09/698,846  
 17 <151> PRIOR FILING DATE: 2000-10-27  
 19 <150> PRIOR APPLICATION NUMBER: US 09/684,386  
 20 <151> PRIOR FILING DATE: 2000-10-04  
 22 <150> PRIOR APPLICATION NUMBER: US 09/602,586  
 23 <151> PRIOR FILING DATE: 2000-06-21  
 25 <150> PRIOR APPLICATION NUMBER: US 09/561,579  
 26 <151> PRIOR FILING DATE: 2000-04-28  
 28 <150> PRIOR APPLICATION NUMBER: US 09/303,029  
 29 <151> PRIOR FILING DATE: 1999-04-30  
 31 <160> NUMBER OF SEQ ID NOS: 18  
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 35 <210> SEQ ID NO: 1  
 36 <211> LENGTH: 16  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: oligonucleotide  
 43 <400> SEQUENCE: 1  
 44 tcaccacatc ccagtg  
 46 <210> SEQ ID NO: 2  
 47 <211> LENGTH: 16  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: oligonucleotide  
 54 <400> SEQUENCE: 2  
 55 gagggagggtt tggctg  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 22  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: oligonucleotide  
 65 <221> NAME/KEY: misc\_feature  
 66 <222> LOCATION: (22)...(22)  
 67 <223> OTHER INFORMATION: 3' nucleotide linked to tetramethyl rhodamine  
 69 <400> SEQUENCE: 3  
 70 ccagcaacca atgatgcccg tt

Does Not Comply  
Corrected Diskette Needed

16  
more specific response  
needed. What is the source  
of the artificial sequence?  
16

See #12 on the Error  
Summary  
Sheet.

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/825,246

DATE: 04/23/2001

TIME: 13:14:30

Input Set : A:\0225-0033.20-SEQLIST.txt

Output Set: N:\CRF3\04232001\I825246.raw

72 <210> SEQ ID NO: 4  
73 <211> LENGTH: 22  
74 <212> TYPE: DNA  
75 <213> ORGANISM: Artificial Sequence  
77 <220> FEATURE:  
78 <223> OTHER INFORMATION: (oligonucleotide) → See p.1  
80 <221> NAME/KEY: misc\_feature  
81 <222> LOCATION: (1)...(1)  
82 <223> OTHER INFORMATION: 5' nucleotide linked to fluorescein  
84 <221> NAME/KEY: misc\_feature  
85 <222> LOCATION: (22)...(22)  
86 <223> OTHER INFORMATION: 3' nucleotide linked to tetramethyl rhodamine  
88 <400> SEQUENCE: 4  
89 ccagcaagca ctgatgcctg tt 22  
91 <210> SEQ ID NO: 5  
92 <211> LENGTH: 4  
93 <212> TYPE: PRT  
94 <213> ORGANISM: Artificial Sequence  
96 <220> FEATURE:  
97 <223> OTHER INFORMATION: peptide linker  
99 <400> SEQUENCE: 5  
100 Lys Lys Ala Ala  
101 1  
103 <210> SEQ ID NO: 6  
104 <211> LENGTH: 4  
105 <212> TYPE: PRT  
106 <213> ORGANISM: Artificial Sequence  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: peptide linker  
111 <400> SEQUENCE: 6  
112 Lys Lys Lys Ala  
113 1  
115 <210> SEQ ID NO: 7  
116 <211> LENGTH: 4  
117 <212> TYPE: PRT  
118 <213> ORGANISM: Artificial Sequence  
120 <220> FEATURE:  
121 <223> OTHER INFORMATION: peptide linker  
123 <400> SEQUENCE: 7  
124 Lys Lys Lys Lys  
125 1  
127 <210> SEQ ID NO: 8  
128 <211> LENGTH: 25  
129 <212> TYPE: DNA  
130 <213> ORGANISM: Artificial Sequence  
132 <220> FEATURE:  
133 <223> OTHER INFORMATION: (oligonucleotide) → See p.1  
135 <400> SEQUENCE: 8  
136 gaccaggaaa tagagaggaa atgta 25

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/825,246

DATE: 04/23/2001

TIME: 13:14:30

Input Set : A:\0225-0033.20-SEQLIST.txt

Output Set: N:\CRF3\04232001\I825246.raw

138 <210> SEQ ID NO: 9  
 139 <211> LENGTH: 27  
 140 <212> TYPE: DNA  
 141 <213> ORGANISM: Artificial Sequence  
 143 <220> FEATURE:  
 144 <223> OTHER INFORMATION: (oligonucleotide)  
 146 <400> SEQUENCE: 9  
 147 gaaggagaag gaagagttgg tattatc 27  
 149 <210> SEQ ID NO: 10  
 150 <211> LENGTH: 21  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: Artificial Sequence  
 154 <220> FEATURE:  
 155 <223> OTHER INFORMATION: (oligonucleotide)  
 157 <400> SEQUENCE: 10  
 158 ttgggctcag atctgtgata g 21  
 160 <210> SEQ ID NO: 11  
 161 <211> LENGTH: 27  
 162 <212> TYPE: DNA  
 163 <213> ORGANISM: Artificial Sequence  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: (oligonucleotide)  
 168 <400> SEQUENCE: 11  
 169 catctaggta tccaaaagga gagtcta 27  
 171 <210> SEQ ID NO: 12  
 172 <211> LENGTH: 27  
 173 <212> TYPE: DNA  
 174 <213> ORGANISM: Artificial Sequence  
 176 <220> FEATURE:  
 177 <223> OTHER INFORMATION: (oligonucleotide)  
 179 <400> SEQUENCE: 12  
 180 cggatatatag ttcttccctca tgetatt 27  
 182 <210> SEQ ID NO: 13  
 183 <211> LENGTH: 20  
 184 <212> TYPE: DNA  
 185 <213> ORGANISM: Artificial Sequence  
 187 <220> FEATURE:  
 188 <223> OTHER INFORMATION: (oligonucleotide)  
 190 <400> SEQUENCE: 13  
 191 gcaagatctt cgccttactg 20  
 193 <210> SEQ ID NO: 14  
 194 <211> LENGTH: 32  
 195 <212> TYPE: DNA  
 196 <213> ORGANISM: Artificial Sequence  
 198 <220> FEATURE:  
 199 <223> OTHER INFORMATION: probe  
 201 <221> NAME/KEY: misc\_feature  
 202 <222> LOCATION: (1)...(1)  
 203 <223> OTHER INFORMATION: e-tag10s modification to the 5' nucleotide

See p. 1

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/825,246

DATE: 04/23/2001

TIME: 13:14:30

Input Set : A:\0225-0033.20-SEQLIST.txt

Output Set: N:\CRF3\04232001\I825246.raw

```

205 <400> SEQUENCE: 14
206 ttccattttc tttttagagc agtatacaaa ga
208 <210> SEQ ID NO: 15
209 <211> LENGTH: 32
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: probe
216 <221> NAME/KEY: misc_feature
217 <222> LOCATION: (1)...(1)
218 <223> OTHER INFORMATION: e-tag10as modification to the 5' nucleotide
220 <400> SEQUENCE: 15
221 tctttgtata ctgctctaaa aagaaaatgg aa
223 <210> SEQ ID NO: 16
224 <211> LENGTH: 28
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: probe
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (1)...(1)
233 <223> OTHER INFORMATION: e-tag11s modification to the 5' nucleotide
235 <400> SEQUENCE: 16
236 aaactecagc atagatgtgg atagcttg
238 <210> SEQ ID NO: 17
239 <211> LENGTH: 29
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: probe
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)...(1)
248 <223> OTHER INFORMATION: e-tag11as modification to the 5' nucleotide
250 <400> SEQUENCE: 17
251 caagctatcc acatctatgc tggagttt
253 <210> SEQ ID NO: 18
254 <211> LENGTH: 23
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: probe
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (1)...(1)
263 <223> OTHER INFORMATION: e-tag13as modification to the 5' nucleotide
265 <400> SEQUENCE: 18
266 aactgcttgt ggccatggct tag

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/825,246

DATE: 04/23/2001

TIME: 13:14:31

Input Set : A:\0225-0033.20-SEQLIST.txt

Output Set: N:\CRF3\04232001\I825246.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date